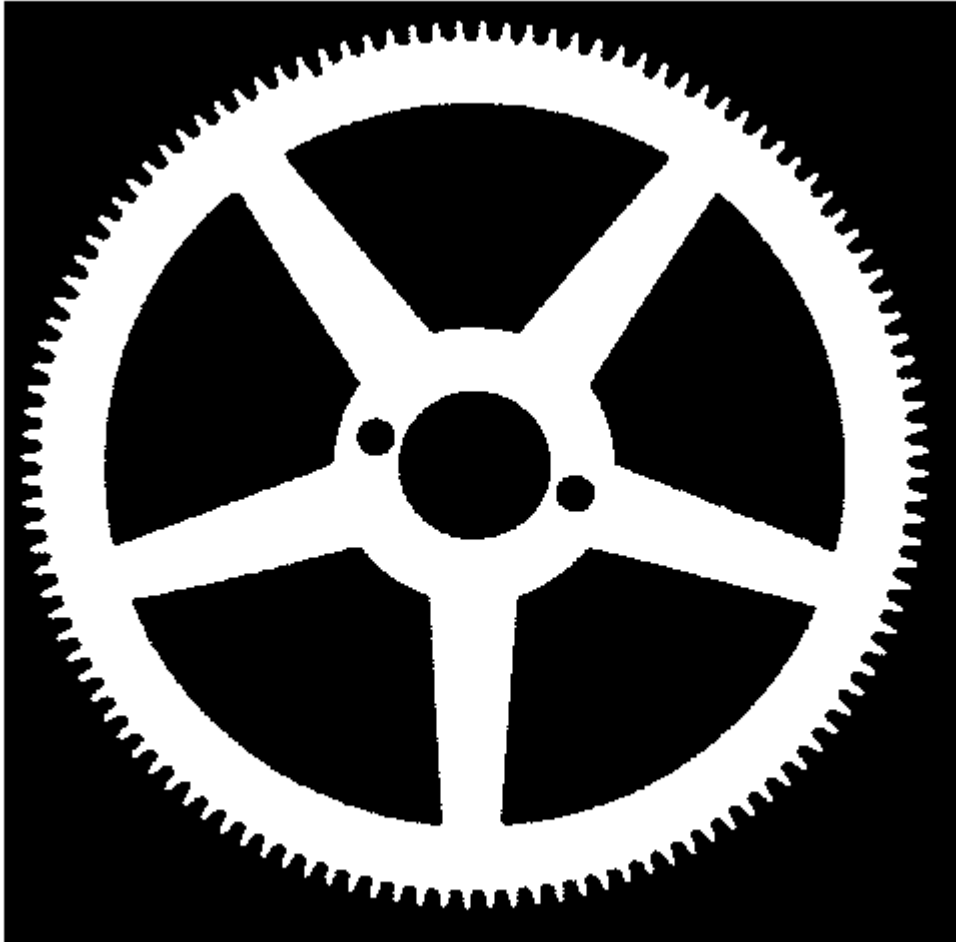


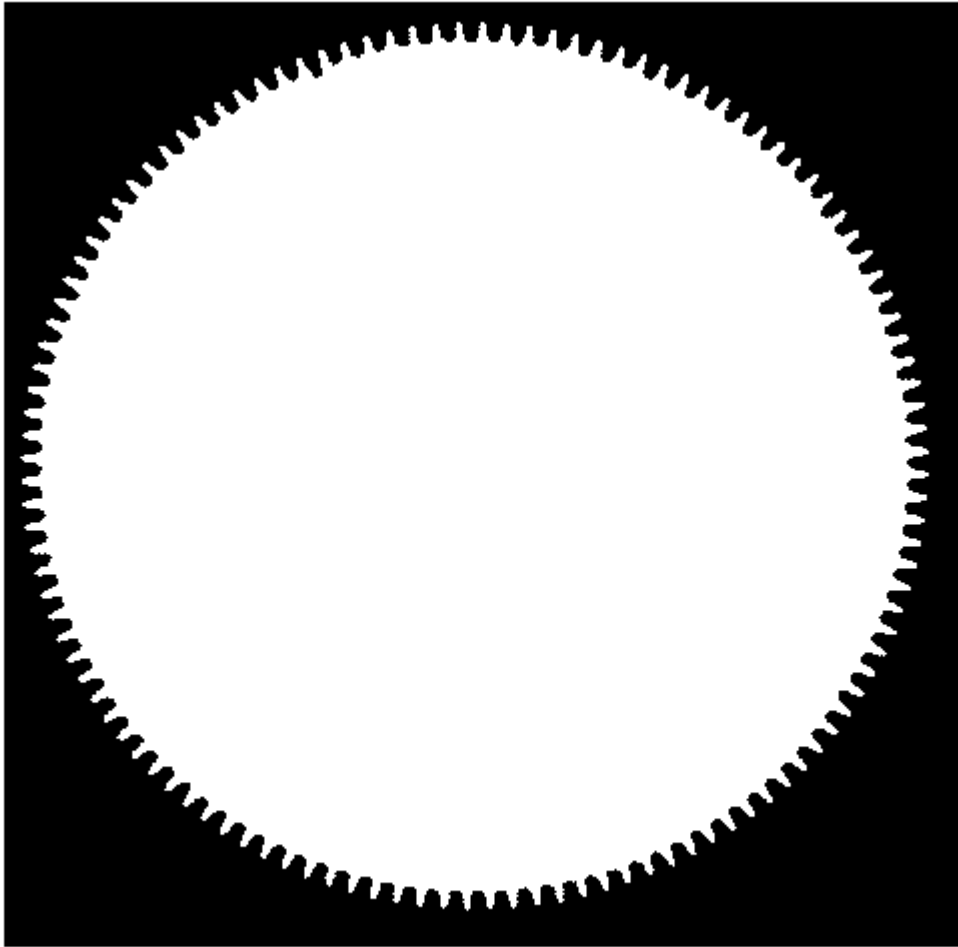
```
% -- EJERCICIO 1 --
I = imread('Wheel.bmp');
I = rgb2gray(I);

% Binarizamos la imagen
I = not(I == 0);
imshow(I);
```

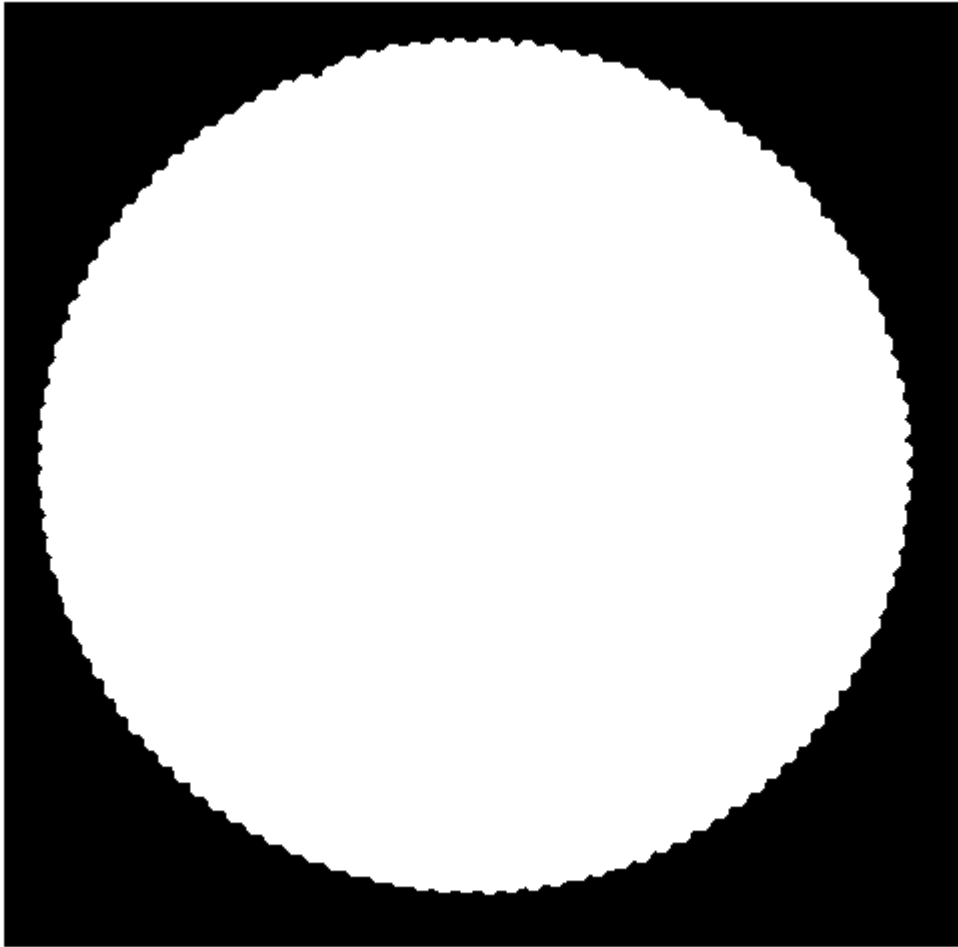


```
% Hacemos una reconstruccion a partir del fondo
bw = zeros(size(I));
bw(1,1) = 1;
bw = (bw == 1);
I = imreconstruct(bw, not(I));

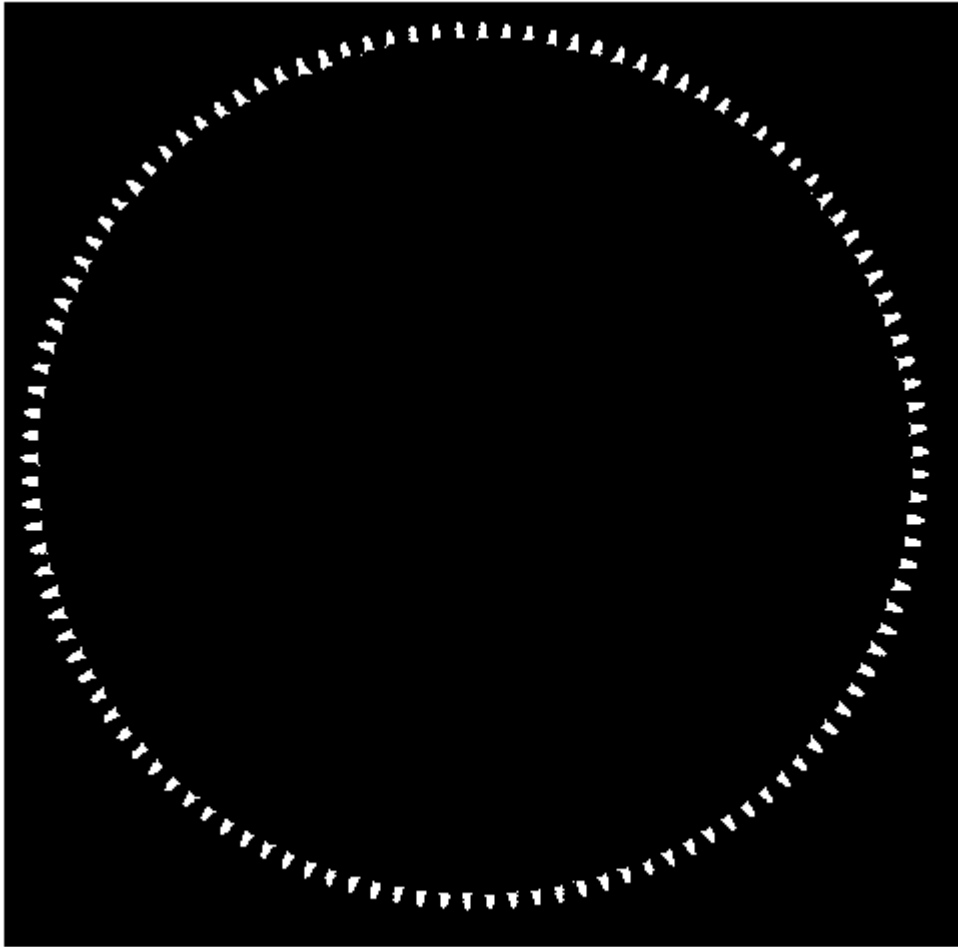
% negamos la reconstruccion
I = not(I);
imshow(I);
```



```
% Hacemos un opening  
SE = strel('disk',5);  
nodents = imopen(I, SE);  
imshow(nodents);
```



```
% Restamos para obtener los dientes separados  
dents = xor(I, nodents);  
imshow(dents);
```



```
% Calculamos cuantas componentes connexas hay  
con = bwconncomp(dents2);  
num = con.NumObjects
```

```
num = 120
```